

Title (en)

SYSTEM FOR PATIENT-SYNCHRONIZED VENTILATORY ASSIST WITH ENDOTRACHEAL THROUGH-FLOW

Title (de)

SYSTEM ZUR MIT DEM PATIENTEN SYNCHRONISIERTEN ATMUNGSUNTERSTÜTZUNG MIT ENDOTRACHEALEM DURCHFLUSS

Title (fr)

SYSTÈME D'ASSISTANCE RESPIRATOIRE SYNCHRONISÉE AU PATIENT AVEC ÉCOULEMENT ENDOTRACHÉAL

Publication

EP 2588177 B1 20200101 (EN)

Application

EP 11800020 A 20110629

Priority

- US 35995110 P 20100630
- CA 2011000765 W 20110629

Abstract (en)

[origin: WO2012000096A1] A ventilatory assist system and method are disclosed. The system comprises a tube for connection to a patient's airway, inspiratory and expiratory tube lumens connected to the tube, an inspiratory air source connected to the inspiration tube lumen, and a controller of air pressure in the expiratory tube lumen. The pressure controller is responsive to a physiological breathing signal representative of patient's inspiratory effort to allow air flow through the expiratory tube lumen during a patient's expiration phase, partially restricting the air flow through the expiratory tube lumen to a minimum air flow during a patient's inspiration phase. During both respiratory phases, a unidirectional air flow is produced through the inspiratory and expiratory tube lumens to prevent air expired by the patient from being breathed again. The physiological breathing signal allows synchronization of the ventilatory assist with breathing efforts of the patient.

IPC 8 full level

A61M 16/00 (2006.01); **A61B 5/0488** (2006.01); **A61M 16/04** (2006.01); **A61M 16/12** (2006.01); **A61M 16/20** (2006.01); **A61B 5/00** (2006.01); **A61B 5/087** (2006.01); **A61M 16/16** (2006.01)

CPC (source: EP US)

A61B 5/087 (2013.01 - EP US); **A61B 5/389** (2021.01 - EP); **A61B 5/4836** (2013.01 - EP US); **A61M 16/0003** (2014.02 - US); **A61M 16/0012** (2014.02 - EP US); **A61M 16/024** (2017.07 - EP); **A61M 16/04** (2013.01 - EP US); **A61M 16/042** (2014.02 - EP US); **A61M 16/0486** (2014.02 - EP US); **A61M 16/12** (2013.01 - EP US); **A61M 16/125** (2014.02 - EP US); **A61M 16/161** (2014.02 - EP US); **A61M 16/202** (2014.02 - EP US); **A61M 16/205** (2014.02 - EP US); **A61M 16/024** (2017.07 - US); **A61M 16/16** (2013.01 - EP US); **A61M 2016/0021** (2013.01 - EP US); **A61M 2016/0027** (2013.01 - EP US); **A61M 2202/0208** (2013.01 - EP US); **A61M 2210/1014** (2013.01 - EP US); **A61M 2230/08** (2013.01 - EP US); **A61M 2230/60** (2013.01 - EP US)

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)

WO 2012000096 A1 20120105; CN 103079621 A 20130501; CN 103079621 B 20150916; EP 2588177 A1 20130508; EP 2588177 A4 20161130; EP 2588177 B1 20200101; US 2014305434 A1 20141016; US 9968750 B2 20180515

DOCDB simple family (application)

CA 2011000765 W 20110629; CN 201180041915 A 20110629; EP 11800020 A 20110629; US 201113806816 A 20110629